FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- REVISED

PERMITTEE

DeKalb County Landfill, Inc. Attn: Bernadette Sarmiento 18370 Somonauk Road DeKalb, Illinois 60115

Application No.: 93080060 I.D. No.: 037802AAI

Applicant's Designation: Date Received: August 16, 2001

Subject: DeKalb County Landfill

Location: South of Cortland on Somonauk Road at I-88

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of landfill with flare and soil vapor extraction system pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- la. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds particulate matter, sulfur dioxide, nitrogen oxide, and volatile organic material. As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
- 2. The facility is subject to the provisions of 35 IAC Part 220 for Municipal Waste Landfills because the active landfill has a capacity greater than 2.5 million metric tons.
- 3a. The amount of landfill gas flared daily and monthly shall be recorded (millions of cubic feet).
- b. The amount of municipal waste received monthly shall be recorded (metric tons).
- c. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Agency and USEPA upon request. Any records

retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Agency request for records during the course of a source inspection.

4. Annual emissions of particulate matter (PM), carbon monoxide (CO), nitrogen oxides (NO $_{\rm x}$), sulfur dioxide (SO $_{\rm 2}$) and volatile organic material from the landfill gas flare shall not exceed the following limits:

	<u>PM</u>	<u>CO</u>	$\overline{\text{NO}}_{\text{x}}$	\underline{SO}_2	MOV
Emission Factors (lb/mmscf)	40	90	40.4	29.6	3.3
Flare @ 648,000 scfd	4.73	10.64	4.78	3.50	0.39
(ton/yr)					

Compliance with this annual limit shall be determined on a monthly basis by the sum of the last 12 months of the landfill gas flared and the above listed emission factors.

- 5. This permit is issued based on negligible emissions of volatile organic material from the soil vapor extraction system. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
- 6. The Permittee shall keep records of the organic material concentration and equipment flow rate in order to show compliance.
- 7. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Agency. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Agency.
- 8. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Agency's Compliance Unit in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

The following special conditions are not federally enforceable:

9. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: municipal waste received each month, landfill gas flared daily. If there have

been no exceedances during the prior calendar year, the Annual Emission Report shall include a statement to that effect.

10. All reports, notifications, etc., required by this permit shall be sent to:

Illinois EPA
Bureau of Air
Compliance Unit (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

Illinois Environmental Protection Agency Division of Air Pollution Control - Regional Office 5415 North University Peoria, Illinois 61614

- 11. The following Standard Conditions are not federally enforceable: Standard Conditions 3(a), 8, 9, 10 and 11.
- 12. The Permittee may continue to operate the existing landfill with flare and soil vapor extraction system under this permit until the final action is taken on the Clean Air Act Permit Program (CAAPP) application by the Illinois EPA. As a result the Permittee must still update the CAAPP application to include the aforementioned equipment.

This permit has been revised to allow the operation of the soil vapor extraction system.

If you have any questions on this, please call Minesh Patel at 217/782-2113.

Donald E. Sutton, P.E. Manager, Permit Section Division of Air Pollution Control

DES:MVP:jar

cc: IEPA, FOS Region 2
IEPA, Compliance Unit
USEPA

Attachment A - Emission Summarv

This attachment provides a summary of the maximum emissions from the landfill flare operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Agency used the annual operating scenario which results in maximum emissions from such a plant. The landfill has 24 acre closed section which was operated from 1958 to 1974 with a total capacity of 0.5 million metric tons and the active area which began operation in 1974 and is expected to operate until the year 2002 with a total capacity of 1.2 million metric tons. A new 26 acre landfill expansion is being developed. The resulting maximum emissions of the landfill gas flare are well below the level at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is landfill, and control measures are more effective than required in this permit.

- 1. Emissions and operational limitations for particulate matter (PM), carbon monoxide (CO), nitrogen oxides (NO_x) , sulfur dioxide (SO_2) , and volatile organic material (VOM):
 - a. Landfill Gas Flare burning a maximum of 648,000 dry standard cubic feed per day (scfd) and operating 365 days per year.

	PM	<u>CO</u>	$\underline{\text{NO}}_{\text{x}}$	\underline{SO}_2	MOV
Emission Factors (1b/mmscf)	40	90	40.4	29.6	3.3
Flare @ 648,000 scfd (ton/yr)	4.73	10.64	4.78	3.50	0.39

2. As a consequence of the requirements of this permit, the emissions of hazardous air pollutants (HAP) as listed in Section 112(b) of the Clean Air Act from this source will be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs so that HAP emissions do not trigger the requirements to obtain a Clean Air Act Permit Program permit from the Agency.

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